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(sleeve adj antenna\$1)	0

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IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

## 1. Sleeve antenna with ground wires

Taguchi, M.; Egashira, S.; Tanaka, K.;  
 Antennas and Propagation, IEEE Transactions on  
 Volume 39, Issue 1, Jan. 1991 Page(s):1 - 7

[AbstractPlus](#) | [Full Text: PDF\(496 KB\)](#) IEEE JNL

## 2. A variable tilted fan beam antenna for indoor base stations

Ogawa, K.; Uwano, T.;  
 Antennas and Propagation Society International Symposium, 1994. AP-S. Digest  
 Volume 1, 20-24 June 1994 Page(s):332 - 335 vol.1

[AbstractPlus](#) | [Full Text: PDF\(120 KB\)](#) IEEE CNF

## 3. An improved microwave antenna array for interstitial hyperthermia

Terakawa, T.; Ito, K.; Kurokawa, S.; Ueno, K.;  
 Engineering in Medicine and Biology Society, 1988. Proceedings of the Annual International Conference of the IEEE  
 4-7 Nov. 1988 Page(s):1331 vol.3

[AbstractPlus](#) | [Full Text: PDF\(60 KB\)](#) IEEE CNF

## 4. A wideband dual meander sleeve antenna

Ali, M.; Stuchly, S.S.; Caputa, K.;  
 Antennas and Propagation Society International Symposium, 1995. AP-S. Digest  
 Volume 2, 18-23 June 1995 Page(s):1124 - 1127 vol.2

[AbstractPlus](#) | [Full Text: PDF\(144 KB\)](#) IEEE CNF

## 5. Slot-monopole antenna system for energy-density reception at UHF

Itoh, K.; Watanabe, R.; Matsumoto, T.;  
 Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988]  
 Volume 27, Issue 4, Jul 1979 Page(s):485 - 489

[AbstractPlus](#) | [Full Text: PDF\(480 KB\)](#) IEEE JNL

## Gregory, Bernarr

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36 5896060 5995046 5995048 6021503 6118189 6121926).pn.  
(6177859 6239675 6243012 6255993 6271768 6289209 6351630 6434372 64667  
71 6509836 6732923 5206656 6069564 4945225 6024142 6085805 6122329 646  
3039 5649318 6236911 6686829 5552789 5815355 4069472 4327364 4926996 5  
523749 5606574 5642103 5705852 5793305 5819164 5866891 5883582 6005510  
6052068 6140982 6147659 6150921 6154635 6172608 6208235 6346881 65385  
64 6601770 6617962 6869019 6037909 4755828 4758841).pn.

09942723 EAST

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6313783  
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5515053  
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4550444  
5017930  
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5351052  
5363109  
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5619207  
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5822683  
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09942723 EAST

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6032127  
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6104291  
6114971  
6133836  
6140146  
6285342  
6320509  
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6388630  
6518885  
6531957  
6580358  
6593845  
6611758  
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6677917  
6775616  
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6838989  
6839035  
5776278  
5779839  
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6220516  
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5920277  
5942977  
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5986382  
5986547  
5987980  
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6046668  
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6211808  
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6714133

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6717923  
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6833790  
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5426667  
5621571  
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4980680  
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5359250  
5376943  
5519729  
5822714  
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6463798  
6496806  
6574454  
6775323  
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6085805  
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6617962  
6869019  
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4755828  
4758841) .pn.

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Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09942723 on April 26, 2005

Original Classifications

15 340/572.7  
13 342/42  
12 342/51  
11 340/10.2  
11 340/10.34  
11 340/572.1  
8 340/10.1  
8 342/44  
7 342/29  
6 235/492  
6 340/572.5  
6 343/742  
5 340/10.4  
5 342/45  
4 340/870.17  
4 343/795  
4 455/101  
4 701/300  
3 340/10.3  
3 340/10.41  
3 340/447  
3 340/961  
3 342/30  
3 342/32  
3 343/700MS  
3 370/278  
2 141/94  
2 156/213  
2 310/313R  
2 340/10.32  
2 340/10.51  
2 340/573.4  
2 340/870.01  
2 340/933  
2 342/37  
2 342/374  
2 342/39  
2 342/450  
2 343/726  
2 343/786  
2 455/106  
2 455/193.1  
2 455/41.1

2 705/23  
2 714/25

## Cross-Reference Classifications

36 342/51  
34 342/44  
26 340/572.1  
25 340/10.1  
20 342/42  
18 340/10.4  
16 340/572.7  
12 340/10.3  
12 340/10.42  
11 342/50  
10 340/572.8  
10 343/867  
9 340/10.41  
8 340/572.5  
8 340/573.1  
8 340/825.49  
8 342/30  
8 342/36  
8 342/37  
7 340/870.31  
7 342/46  
6 235/380  
6 340/10.51  
6 340/442  
6 340/572.4  
6 342/32  
6 343/795  
6 455/41.1  
5 340/447  
5 340/5.61  
5 340/825.72  
5 342/49  
5 343/866  
4 73/146.5  
4 119/51.02  
4 235/491  
4 310/313B  
4 310/313R  
4 340/10.2  
4 340/10.34  
4 340/10.5  
4 340/5.8  
4 340/505  
4 340/568.1

4 340/928  
4 340/933  
4 342/27  
4 342/29  
4 343/700MS  
4 343/705  
4 343/742  
4 343/767  
4 701/217  
4 701/301  
3 73/146.4  
3 235/375  
3 235/492  
3 310/313D  
3 333/154  
3 340/571  
3 340/572.2  
3 340/870.02  
3 342/114  
3 342/175  
3 342/40  
3 342/45  
3 343/718  
3 343/741  
3 343/842  
3 455/277.1  
2 29/855  
2 73/146  
2 73/146.8  
2 116/34R  
2 128/903  
2 152/152.1  
2 156/308.4  
2 235/384  
2 235/385  
2 235/449  
2 235/487  
2 246/167R  
2 257/E23.043  
2 257/E23.124  
2 324/605  
2 333/196  
2 333/21A  
2 340/10.31  
2 340/10.6  
2 340/445  
2 340/5.72  
2 340/825.2

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2 340/825.69  
2 340/904  
2 340/905  
2 340/968  
2 342/118  
2 342/146  
2 342/195  
2 342/357.09  
2 342/361  
2 342/38  
2 342/41  
2 342/455  
2 342/456  
2 342/457  
2 342/463  
2 342/465  
2 342/47  
2 343/702  
2 343/709  
2 343/711  
2 343/713  
2 343/720  
2 343/728  
2 343/745  
2 343/754  
2 343/788  
2 343/802  
2 343/815  
2 343/860  
2 398/108  
2 455/106  
2 455/107  
2 455/121  
2 455/129  
2 455/271  
2 455/47  
2 455/63.1  
2 455/73  
2 701/207

Combined Classifications

48 342/51  
42 342/44  
37 340/572.1  
33 340/10.1  
33 342/42  
31 340/572.7  
23 340/10.4

15 340/10.2  
15 340/10.3  
15 340/10.34  
14 340/572.5  
13 340/10.42  
12 340/10.41  
11 340/572.8  
11 342/29  
11 342/30  
11 342/50  
10 342/37  
10 343/742  
10 343/795  
10 343/867  
9 235/492  
9 342/32  
8 340/10.51  
8 340/447  
8 340/573.1  
8 340/825.49  
8 340/870.31  
8 342/36  
8 342/45  
8 455/41.1  
7 340/572.4  
7 342/46  
7 343/700MS  
6 235/380  
6 310/313R  
6 340/442  
6 340/5.61  
6 340/933  
6 343/866  
5 73/146.5  
5 119/51.02  
5 235/491  
5 340/505  
5 340/825.72  
5 340/928  
5 342/49  
5 343/705  
5 343/767  
4 310/313B  
4 310/313D  
4 340/10.5  
4 340/5.8  
4 340/568.1  
4 340/870.17

4 340/961  
4 342/27  
4 342/40  
4 370/278  
4 455/101  
4 455/106  
4 455/277.1  
4 701/217  
4 701/300  
4 701/301  
3 73/146  
3 73/146.4  
3 73/146.8  
3 152/152.1  
3 235/375  
3 333/154  
3 340/445  
3 340/571  
3 340/572.2  
3 340/573.4  
3 340/870.01  
3 340/870.02  
3 342/114  
3 342/175  
3 342/450  
3 342/455  
3 342/465  
3 343/718  
3 343/741  
3 343/788  
3 343/842  
3 455/193.1  
2 29/855  
2 73/146.2  
2 116/34R  
2 128/903  
2 141/94  
2 156/213  
2 156/292  
2 156/308.4  
2 235/383  
2 235/384  
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2 235/435  
2 235/449  
2 235/487  
2 246/167R  
2 257/723

2 257/E23.043  
2 257/E23.124  
2 324/605  
2 333/196  
2 333/21A  
2 340/10.31  
2 340/10.32  
2 340/10.33  
2 340/10.6  
2 340/5.72  
2 340/825.2  
2 340/825.69  
2 340/825.71  
2 340/904  
2 340/905  
2 340/968  
2 342/118  
2 342/146  
2 342/195  
2 342/357.09  
2 342/361  
2 342/374  
2 342/38  
2 342/39  
2 342/41  
2 342/43  
2 342/456  
2 342/457  
2 342/463  
2 342/47  
2 343/702  
2 343/709  
2 343/711  
2 343/713  
2 343/720  
2 343/726  
2 343/728  
2 343/745  
2 343/754  
2 343/786  
2 343/802  
2 343/815  
2 343/853  
2 343/860  
2 343/895  
2 375/130  
2 375/219  
2 375/259

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2 398/108  
2 455/107  
2 455/121  
2 455/129  
2 455/271  
2 455/47  
2 455/63.1  
2 455/73  
2 455/90.1  
2 701/207  
2 705/23  
2 714/25

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09942723 on April 26, 2005

48 342/51 (12 OR, 36 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/51 .Radar transponder only

42 342/44 (8 OR, 34 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/44 .Unique identity

37 340/572.1 (11 OR, 26 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/568.1 ..Article placement or removal (e.g.,  
anti-theft)  
340/572.1 ...Detectable device on protected article  
(e.g., "tag")

33 340/10.1 (8 OR, 25 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/10.1 .Interrogation response

33 342/42 (13 OR, 20 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM

31 340/572.7 (15 OR, 16 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/568.1 ..Article placement or removal (e.g.,  
anti-theft)  
340/572.1 ...Detectable device on protected article  
(e.g., "tag")  
340/572.7 ....Specified antenna structure

23 340/10.4 (5 OR, 18 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

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340/825           SELECTIVE  
340/10.1        .Interrogation response  
340/10.4        ..Response signal detail

15 340/10.2       (11 OR, 4 XR)  
    Class 340 : COMMUNICATIONS: ELECTRICAL  
    340/825       SELECTIVE  
    340/10.1      .Interrogation response  
    340/10.2      ..Contention avoidance

15 340/10.3       (3 OR, 12 XR)  
    Class 340 : COMMUNICATIONS: ELECTRICAL  
    340/825       SELECTIVE  
    340/10.1      .Interrogation response  
    340/10.3      ..Interrogation signal detail

15 340/10.34      (11 OR, 4 XR)  
    Class 340 : COMMUNICATIONS: ELECTRICAL  
    340/825       SELECTIVE  
    340/10.1      .Interrogation response  
    340/10.3      ..Interrogation signal detail  
    340/10.34     ...Power up

14 340/572.5      (6 OR, 8 XR)  
    Class 340 : COMMUNICATIONS: ELECTRICAL  
    340/500       CONDITION RESPONSIVE INDICATING SYSTEM  
    340/540       .Specific condition  
    340/568.1     ..Article placement or removal (e.g.,  
                  anti-theft)  
    340/572.1     ...Detectable device on protected article  
                  (e.g., "tag")  
    340/572.5     ....Having tuned resonant circuit

13 340/10.42      (1 OR, 12 XR)  
    Class 340 : COMMUNICATIONS: ELECTRICAL  
    340/825       SELECTIVE  
    340/10.1      .Interrogation response  
    340/10.4      ..Response signal detail  
    340/10.42     ...Identification only

12 340/10.41      (3 OR, 9 XR)  
    Class 340 : COMMUNICATIONS: ELECTRICAL  
    340/825       SELECTIVE  
    340/10.1      .Interrogation response  
    340/10.4      ..Response signal detail  
    340/10.41     ...Combination response

11 340/572.8      (1 OR, 10 XR)

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Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 . Specific condition  
340/568.1 .. Article placement or removal (e.g.,  
                  anti-theft)  
340/572.1 ... Detectable device on protected article  
                  (e.g., "tag")  
340/572.8 .... Specified device housing or attachment  
                  means

11 342/29 (7 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                  AND DEVICES  
342/29 AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)

11 342/30 (3 OR, 8 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                  AND DEVICES  
342/29 AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)  
342/30 . With transponder

11 342/50 (0 OR, 11 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                  AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/50 . With Telemetry

10 342/37 (2 OR, 8 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                  AND DEVICES  
342/36 AIR TRAFFIC CONTROL  
342/37 . Secondary Surveillance Radar (SSR) or Air  
                  Traffic Control Radar Beacon System (ATCRBS)

)

10 343/742 (6 OR, 4 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/741 . High frequency type loops  
343/742 .. Plural

10 343/795 (4 OR, 6 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/793 . Balanced doublet - centerfed (e.g., dipole)  
343/795 .. Sheet or wing type

10 343/867 (0 OR, 10 XR)

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Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R      ANTENNAS  
343/866      .Loop type  
343/867      ..Plural; plural or tapped coils

9 235/492      (6 OR, 3 XR)

Class 235 : REGISTERS  
235/487      RECORDS  
235/492      .Conductive

9 342/32      (3 OR, 6 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/29      AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)  
342/30      .With transponder  
342/32      ..Included in Secondary Surveillance Radar (SSR)

)  
or Air Traffic Control Radio Beacon System  
(ATCRBS)

8 340/10.51      (2 OR, 6 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825      SELECTIVE  
340/10.1      .Interrogation response  
340/10.5      ..Additional control  
340/10.51      ...Programming (e.g., read/write)

8 340/447      (3 OR, 5 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/425.5      LAND VEHICLE ALARMS OR INDICATORS  
340/438      .Internal alarm or indicator responsive to a  
condition of the vehicle  
340/442      ..Tire deflation or inflation  
340/445      ...With particular telemetric coupling  
340/447      ....Radio wave

8 340/573.1      (0 OR, 8 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500      CONDITION RESPONSIVE INDICATING SYSTEM  
340/540      .Specific condition  
340/573.1      ..Human or animal

8 340/825.49      (0 OR, 8 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825      SELECTIVE  
340/825.36      .Having indication or alarm (e.g., location  
indication)  
340/825.49      ..Location indication

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8 340/870.31 (1 OR, 7 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,  
TELEMETERING)  
340/870.3 .With particular transmitter (e.g.,  
piezoelectric, dynamo)  
340/870.31 ..Inductive transmitter

8 342/36 (0 OR, 8 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/36 AIR TRAFFIC CONTROL

8 342/45 (5 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/45 .IFF or SIF

8 455/41.1 (2 OR, 6 XR)  
Class 455 : TELECOMMUNICATIONS  
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
455/41.1 .Near field (i.e., inductive or capacitive  
coupling)

7 340/572.4 (1 OR, 6 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/568.1 ..Article placement or removal (e.g.,  
anti-theft)  
340/572.1 ....Detectable device on protected article  
(e.g., "tag")  
340/572.4 .....Specified processing arrangement for  
detected signal

7 342/46 (0 OR, 7 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/46 .Navigational

7 343/700MS (3 OR, 4 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/700MS .Microstrip

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6 235/380 (0 OR, 6 XR)  
Class 235 : REGISTERS  
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS  
235/380 .Credit or identification card systems

6 310/313R (2 OR, 4 XR)  
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
310/300 NON-DYNAMOELECTRIC  
310/311 .Piezoelectric elements and devices  
310/313R ..Surface acoustic wave devices

6 340/442 (0 OR, 6 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
340/438 .Internal alarm or indicator responsive to a  
condition of the vehicle  
340/442 ..Tire deflation or inflation

6 340/5.61 (1 OR, 5 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/5.1 .Intelligence comparison for controlling  
340/5.2 ..Authorization control (e.g., entry into an  
area)  
340/5.6 ...Coded record input (e.g., IC card or key)  
340/5.61 ....Wireless transceiver

6 340/933 (2 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/933 VEHICLE DETECTORS

6 343/866 (1 OR, 5 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/866 .Loop type

5 73/146.5 (1 OR, 4 XR)  
Class 073 : MEASURING AND TESTING  
73/146 TIRE, TREAD OR ROADWAY  
73/146.2 .Tire inflation testing installation  
73/146.3 ..By direct fluid pressure reading  
73/146.4 ...Telemetric (e.g., indicator on cowl)  
73/146.5 ....Electric

5 119/51.02 (1 OR, 4 XR)  
Class 119 : ANIMAL HUSBANDRY  
119/51.01 FEEDING DEVICE

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119/51.02 .Having electronic identification and feed control

5 235/491 (1 OR, 4 XR)  
Class 235 : REGISTERS  
235/487 RECORDS  
235/491 .Fluorescent, phosphorescent, radiation emitting

5 340/505 (1 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/501 .With particular system function (e.g., temperature compensation, calibration)  
340/505 ..Interrogator-responder

5 340/825.72 (0 OR, 5 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.71 .Frequency responsive actuation  
340/825.72 ..Wireless link

5 340/928 (1 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/907 TRAFFIC CONTROL INDICATOR  
340/928 .Combined (e.g., toll systems, one-way)

5 342/49 (0 OR, 5 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/46 .Navigational  
342/47 ..Distance measuring equipment (DME)  
342/49 ...With VOR/TACAN

5 343/705 (1 OR, 4 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/705 .With aircraft

5 343/767 (1 OR, 4 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/767 .Slot type

4 310/313B (0 OR, 4 XR)  
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
310/300 NON-DYNAMOELECTRIC

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310/311 .Piezoelectric elements and devices  
310/313R ..Surface acoustic wave devices  
310/313B ...Interdigitated electrodes

4 310/313D (1 OR, 3 XR)  
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
310/300 NON-DYNAMOELECTRIC  
310/311 .Piezoelectric elements and devices  
310/313R ..Surface acoustic wave devices  
310/313B ...Interdigitated electrodes  
310/313D ....Grating or reflector in wave path

4 340/10.5 (0 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/10.1 .Interrogation response  
340/10.5 ..Additional control

4 340/5.8 (0 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/5.1 .Intelligence comparison for controlling  
340/5.8 ..Authentication (e.g., identity)

4 340/568.1 (0 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/568.1 ..Article placement or removal (e.g.,  
anti-theft)

4 340/870.17 (4 OR, 0 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,  
TELEMETERING)  
340/870.16 .Condition responsive  
340/870.17 ..Temperature

4 340/961 (3 OR, 1 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/945 AIRCRAFT ALARM OR INDICATING SYSTEMS  
340/961 .Potential collision with other aircraft

4 342/27 (0 OR, 4 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/27 PRESENCE DETECTION ONLY

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4 342/40 (1 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/36 AIR TRAFFIC CONTROL  
342/37 .Secondary Surveillance Radar (SSR) or Air  
Traffic Control Radar Beacon System (ATCRB  
S)  
342/40 ..With defruiting or degarbling

4 370/278 (3 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/276 DUPLEX  
370/277 .Communication over free space  
370/278 ..Transmit/receive interaction control

4 455/101 (4 OR, 0 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/101 .Diversity

4 455/106 (2 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/106 .Modulation by absorption, shielding, or  
reflecting

4 455/277.1 (1 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/269 .With wave collector (e.g., antenna)  
455/272 ..Plural separate collectors  
455/277.1 ...Selectively or alternately connected to  
receiver

4 701/217 (0 OR, 4 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/207 .Employing position determining equipment  
701/217 ..Using dead-reckoning apparatus

4 701/300 (4 OR, 0 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/300 RELATIVE LOCATION

4 701/301 (0 OR, 4 XR)

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Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/300 RELATIVE LOCATION

701/301 .Collision avoidance

3 73/146 (1 OR, 2 XR)

Class 073 : MEASURING AND TESTING

73/146 TIRE, TREAD OR ROADWAY

3 73/146.4 (0 OR, 3 XR)

Class 073 : MEASURING AND TESTING

73/146 TIRE, TREAD OR ROADWAY

73/146.2 .Tire inflation testing installation

73/146.3 ..By direct fluid pressure reading

73/146.4 ...Telemetric (e.g., indicator on cowl)

3 73/146.8 (1 OR, 2 XR)

Class 073 : MEASURING AND TESTING

73/146 TIRE, TREAD OR ROADWAY

73/146.2 .Tire inflation testing installation

73/146.3 ..By direct fluid pressure reading

73/146.8 ...Tire stem attachments

3 152/152.1 (1 OR, 2 XR)

Class 152 : RESILIENT TIRES AND WHEELS

152/151 TIRES, RESILIENT

152/152.1 .With electrical conducting means

3 235/375 (0 OR, 3 XR)

Class 235 : REGISTERS

235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS

3 333/154 (0 OR, 3 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

333/24R COUPLING NETWORKS

333/150 .Delay lines including elastic surface wave  
propagation means

333/154 ..Significant transmitting or receiving  
transducer structure

3 340/445 (1 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/425.5 LAND VEHICLE ALARMS OR INDICATORS

340/438 .Internal alarm or indicator responsive to a  
condition of the vehicle

340/442 ..Tire deflation or inflation

340/445 ...With particular telemetric coupling

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3 340/571 (0 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/500 CONDITION RESPONSIVE INDICATING SYSTEM

340/540 .Specific condition

340/568.1 ..Article placement or removal (e.g.,  
anti-theft)

340/571 ...Alarm on protected article

3 340/572.2 (0 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/500 CONDITION RESPONSIVE INDICATING SYSTEM

340/540 .Specific condition

340/568.1 ..Article placement or removal (e.g.,  
anti-theft)

340/572.1 ...Detectable device on protected article  
(e.g., "tag")

340/572.2 ....Specified relationship between field and  
detection frequencies (e.g., nth order harm  
onics)

3 340/573.4 (2 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/500 CONDITION RESPONSIVE INDICATING SYSTEM

340/540 .Specific condition

340/573.1 ..Human or animal

340/573.4 ...House arrest system, wandering, or wrong  
place

3 340/870.01 (2 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,  
TELEMETERING)

3 340/870.02 (0 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,  
TELEMETERING)

340/870.02 .With meter reading

3 342/114 (0 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/104 DETERMINING VELOCITY

342/114 .Combined with determining sense of motion  
(i.e., approaching or receding)

3 342/175 (0 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

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AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT

3 342/450 (2 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/450 .Position indicating (e.g., triangulation)

3 342/455 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/450 .Position indicating (e.g., triangulation)  
342/454 ..Traffic  
342/455 ...Having collision avoidance

3 342/465 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/450 .Position indicating (e.g., triangulation)  
342/463 ..Having plural transmitters or receivers  
342/465 ...Plural receivers only

3 343/718 (0 OR, 3 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/718 .Body-attached or connected

3 343/741 (0 OR, 3 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/741 .High frequency type loops

3 343/788 (1 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/787 .Including magnetic material  
343/788 ..Loop type

3 343/842 (0 OR, 3 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/841 .With electrical shield  
343/842 ..Loop-type antenna

3 455/193.1 (2 OR, 1 XR)

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Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/150.1 .Signal selection based on frequency (e.g.,  
tuning)  
455/193.1 ..With antenna circuit tuning

2 29/855 (0 OR, 2 XR)  
Class 029 : METAL WORKING  
29/592 METHOD OF MECHANICAL MANUFACTURE  
29/592.1 .Electrical device making  
29/825 ..Conductor or circuit manufacturing  
29/854 ...Assembling electrical component directly to  
terminal or elongated conductor  
29/855 ....With encapsulating

2 73/146.2 (1 OR, 1 XR)  
Class 073 : MEASURING AND TESTING  
73/146 TIRE, TREAD OR ROADWAY  
73/146.2 .Tire inflation testing installation

2 116/34R (0 OR, 2 XR)  
Class 116 : SIGNALS AND INDICATORS  
116/28R VEHICLE  
116/34R .Tire inflation or deflation

2 128/903 (0 OR, 2 XR)  
Class 128 : SURGERY  
128/903 RADIO TELEMETRY

2 141/94 (2 OR, 0 XR)  
Class 141 : FLUENT MATERIAL HANDLING, WITH RECEIVER OR  
RECEIVER COACTING MEANS  
141/94 WITH SIGNAL, INDICATOR, RECORDER, INSPECTION  
MEANS OR EXHIBITOR

2 156/213 (2 OR, 0 XR)  
Class 156 : ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL  
MANUFACTURE  
156/1 METHODS  
156/60 .Surface bonding and/or assembly therefor  
156/196 ..With permanent bending or reshaping or  
surface deformation of self sustaining la  
mina  
t  
156/212 ...By bending, drawing or stretch forming shee  
to assume shape of configured lamina while  
in contact

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therewith

156/213 ....Encasing or enveloping the configured lamina

2 156/292 (1 OR, 1 XR)  
Class 156 : ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE  
156/1 METHODS  
156/60 .Surface bonding and/or assembly therefor  
156/292 ..Of laminae having opposed facing areas out of contact

2 156/308.4 (0 OR, 2 XR)  
Class 156 : ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE  
156/1 METHODS  
156/60 .Surface bonding and/or assembly therefor  
156/308.2 ..By tackifying substance of self-sustaining lamina to be bonded; e.g., autogenous bonding, etc.  
156/308.4 ...Only part of contacting laminae surfaces bonded; e.g., seam, seal, etc.

2 235/383 (1 OR, 1 XR)  
Class 235 : REGISTERS  
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS  
235/383 .Mechanized store

2 235/384 (0 OR, 2 XR)  
Class 235 : REGISTERS  
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS  
235/384 .Transportation

2 235/385 (0 OR, 2 XR)  
Class 235 : REGISTERS  
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS  
235/385 .Inventory

2 235/435 (1 OR, 1 XR)  
Class 235 : REGISTERS  
235/435 CODED RECORD SENSORS

2 235/449 (0 OR, 2 XR)  
Class 235 : REGISTERS  
235/435 CODED RECORD SENSORS  
235/439 .Particular sensor structure  
235/449 ..Magnetic

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2 235/487 (0 OR, 2 XR)

Class 235 : REGISTERS  
235/487 RECORDS

2 246/167R (0 OR, 2 XR)

Class 246 : RAILWAY SWITCHES AND SIGNALS  
246/167R CAB SIGNAL OR TRAIN CONTROL

2 257/723 (1 OR, 1 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/688 .With large area flexible electrodes in press  
conductor chip contact with opposite sides of active semi  
and surrounded by an insulating element, e  
.g., ring  
257/723 .For plural devices

2 257/E23.043 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E23.001 PACKAGING, INTERCONNECTS, AND MARKINGS FOR  
SEMICONDUCTOR OR OTHER SOLID-STATE DEVI  
CES (EPO)

257/E23.01 .Arrangements for conducting electric current  
to or from solid-state body in operation  
, e.g., leads,  
terminal arrangements (EPO)  
257/E23.023 ..Consisting of soldered or bonded  
constructions (EPO)  
257/E23.031 ...Lead frames or other flat leads (EPO)  
257/E23.043 ....Geometry of lead frame (EPO)

2 257/E23.124 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E23.113 ....Ceramic materials or glass (EPO)

257/E23.116 ..Encapsulations, e.g., encapsulating layers,  
coatings, e.g., for protection (EPO)

257/E23.123 ..Characterized by arrangement or shape (EPO)

257/E23.124 ...Device being completely enclosed (EPO)

2 324/605 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES  
REPRESENTATIVE OF ELECTRICAL STIMULUS/RES  
PONSE

RELATIONSHIPS

324/602 .With auxiliary means to condition

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stimulus/response signals  
324/605 ..For response signal evaluation or processing

2 333/196 (0 OR, 2 XR)  
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
333/24R COUPLING NETWORKS  
333/186 .Electromechanical filter  
333/193 ..Using surface acoustic waves  
333/196 ...With response weighting means

2 333/21A (0 OR, 2 XR)  
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
333/21R WAVE MODE CONVERTERS  
333/21A .Polarization converters

2 340/10.31 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/10.1 .Interrogation response  
340/10.3 ..Interrogation signal detail  
340/10.31 ...Individual call

2 340/10.32 (2 OR, 0 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/10.1 .Interrogation response  
340/10.3 ..Interrogation signal detail  
340/10.32 ...Group call

2 340/10.33 (1 OR, 1 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/10.1 .Interrogation response  
340/10.3 ..Interrogation signal detail  
340/10.33 ...Wake up (all call)

2 340/10.6 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/10.1 .Interrogation response  
340/10.6 ..Printout or display

2 340/5.72 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/5.1 .Intelligence comparison for controlling  
340/5.2 ..Authorization control (e.g., entry into an

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area)

340/5.7 ....Access barrier  
340/5.72 ....Vehicle door

2 340/825.2 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.2 .Synchronizing

2 340/825.69 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.57 .Pulse responsive actuation  
340/825.62 ..Serial  
340/825.69 ...Radio link

2 340/825.71 (1 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.71 .Frequency responsive actuation

2 340/904 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM

340/904 .Transmitter in one vehicle only

2 340/905 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM

340/905 .Highway information (e.g., weather, speed  
limits, etc.)

2 340/968 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/945 AIRCRAFT ALARM OR INDICATING SYSTEMS  
340/963 .Flight alarm  
340/968 ..Wind shear

2 342/118 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/118 DETERMINING DISTANCE

2 342/146 (0 OR, 2 XR)

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Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/118 DETERMINING DISTANCE

342/146 .Combined with determining direction

2 342/195 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

342/195 .Digital processing

2 342/357.09 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.09 ....With transmission of location-indicative  
information to or from a remote station

2 342/361 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/361 .Including polarized signal communication  
transmitter or receiver

2 342/374 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/368 .Including a steerable array

342/374 ..With a switch

2 342/38 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air  
Traffic Control Radar Beacon System (ATCRB  
S)

342/38 ..With altitude information

2 342/39 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

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342/36 AIR TRAFFIC CONTROL  
342/37 .Secondary Surveillance Radar (SSR) or Air  
Traffic Control Radar Beacon System (ATCRB  
S)

342/39 ..With side lobe suppression

2 342/41 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/41 SHIP COLLISION AVOIDANCE

2 342/43 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/42 RADAR TRANSPONDER SYSTEM

342/43 ..Combined with primary radar system

2 342/456 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 ..Position indicating (e.g., triangulation)

342/454 ..Traffic

342/456 ...Having traffic control

2 342/457 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 ..Position indicating (e.g., triangulation)

342/457 ..Land vehicle location (e.g., bus, police car)

2 342/463 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 ..Position indicating (e.g., triangulation)

342/463 ..Having plural transmitters or receivers

2 342/47 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/42 RADAR TRANSPONDER SYSTEM

342/46 ..Navigational

342/47 ..Distance measuring equipment (DME)

2 343/702 (0 OR, 2 XR)

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Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/702 .With radio cabinet

2 343/709 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/709 .Waterborne (e.g., buoyant or with watercraft)

2 343/711 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/711 .With vehicle

2 343/713 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/711 .With vehicle  
343/713 ..Supported by vehicle body

2 343/720 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/720 .Combined with diverse-type art device

2 343/726 (2 OR, 0 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/725 .Plural separate diverse type  
343/726 ..Including balanced doublet and loop-type  
antennas

2 343/728 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/725 .Plural separate diverse type  
343/728 ..Including loop-type antenna

2 343/745 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/745 .With variable reactance for tuning antenna

2 343/754 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/753 .With spaced or external radio wave refractor

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(e.g., lens)

343/754 ..With scanning, sweeping, or orienting

2 343/786 (2 OR, 0 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/772 .Wave guide type (e.g., horn)

343/786 ..With horn

2 343/802 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/793 .Balanced doublet - centerfed (e.g., dipole)

343/802 ..Distributed reactance added to arms

2 343/815 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/793 .Balanced doublet - centerfed (e.g., dipole)

343/810 ..Plural

343/812 ...Parallel arrangement

343/815 ....With parasitic element (e.g., reflector or director)

2 343/853 (1 OR, 1 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/850 .With coupling network or impedance in the leadin

343/853 ..With plural antennas

2 343/860 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/850 .With coupling network or impedance in the leadin

343/860 ..Impedance matching network

2 343/895 (1 OR, 1 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/895 .Spiral or helical type

2 375/130 (1 OR, 1 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/130 SPREAD SPECTRUM

2 375/219 (1 OR, 1 XR)

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Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/219 TRANSCEIVERS

2 375/259 (1 OR, 1 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT

2 398/108 (0 OR, 2 XR)  
Class 398 : OPTICAL COMMUNICATIONS  
398/106 REMOTE CONTROL  
398/107 . Bidirectional (i.e., monitoring or  
acknowledge)  
398/108 .. Interrogator system

2 455/107 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/107 . With variation of antenna impedance or  
dimension for modulation

2 455/121 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/120 . Including tuning  
455/121 .. In antenna circuit

2 455/129 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/129 . With coupled antenna

2 455/271 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/269 . With wave collector (e.g., antenna)  
455/271 .. Suppression of radiation from receiver via  
wave collector

2 455/47 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
455/47 . Single or vestigial sideband system

2 455/63.1 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS

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455/39

TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/63.1

.Distortion, noise, or other interference prevention, reduction, or compensation

2 455/73

(0 OR, 2 XR)

Class 455

: TELECOMMUNICATIONS

455/73

TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

2 455/90.1

(1 OR, 1 XR)

Class 455

: TELECOMMUNICATIONS

455/554.1

..Remote private branch exchange (PBX) with wireless link to landline

455/90.1

.Having particular application (e.g., avalanche

e

victim assistance) of a transceiver

2 701/207

(0 OR, 2 XR)

Class 701

: DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION

701/200

NAVIGATION

701/207

.Employing position determining equipment

2 705/23

(2 OR, 0 XR)

Class 705

: DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMIN

ATION

705/1

AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS PRACTICE OR MANAGEMENT ARRANGEMENT

705/16

.Including point of sale terminal or electroni

c

cash register

705/23

..Input by product or record sensing (weighing

scanner processing)

2 714/25

(2 OR, 0 XR)

Class 714

: ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY

714/100

DATA PROCESSING SYSTEM ERROR OR FAULT HANDLING

714/1

.Reliability and availability

714/25

..Fault locating (i.e., diagnosis or testing)

about 1  
abstract 1  
accompanying 1  
accordingly 2  
achieve 2  
achieves 1  
adjacent 1  
adopting 2  
adopts 1  
allows 2  
an-48-  
and 41  
annexed 1  
another 1  
answer 1  
antenna 50  
antennas 10  
applicant 1  
application 5  
applied 1  
applying 4  
apt 1  
are 3  
area 6  
areas 4  
around 1  
array 4  
arrayed 5  
articles 1  
as 26  
at 4  
attain 3  
attained 1  
august 1  
background 1  
band 5  
based 1  
basic 1  
be 8  
becomes 2  
been 1  
being 2  
belt 1  
between 4  
block 3  
body 4  
brief 1  
by 9

cable 11  
can 2  
capability 1  
carried 1  
case 4  
cells 1  
certificate 1  
certify 1  
characteristic 4  
characteristics 1  
chart 5  
circuit 1  
circumference 1  
circumstances 1  
cj 1  
clocks 1  
close 2  
coaxial 11  
commissionerz 1  
communication 7  
communications 1  
composed 1  
concentrated 3  
conductor 7  
configuration 6  
connected 2  
connections 1  
consequence 1  
constant 1  
continuously 2  
control 1  
controller 3  
conveyer 1  
copy 1  
core 5  
coupling 1  
covering 1  
create 1  
created 1  
current 7  
data 1  
datas 1  
date 1  
dated 1  
day 1  
dc 1  
denote 2  
denotes 1

depending 1  
described 1  
description 2  
desired 1  
detail 2  
detailed 1  
deteriorate 1  
deteriorated 1  
determined 1  
diagram 3  
dielectric 2  
different 2  
difficult 2  
discriminates 2  
discrimination 1  
discussed 2  
disposed 1  
distance 5  
distribution 6  
distributions 2  
disturb 1  
drawings 2  
each 4  
effective 1  
eighth 2  
electromagnetic 17  
element 1  
elements 4  
embodiment 15  
embodiments 3  
end 7  
energy 5  
equipment 3  
equivalent 1  
essential 1  
ete 1  
even 2  
examination 1  
example 7  
exchange 2  
exchanges 3  
exchanging 1  
excited 2  
explaining 10  
explains 11  
extends 1  
eyf 1  
feed 6

field 2  
fields 1  
fifth 1  
fig 35  
figs 2  
filed 1  
film 1  
first 4  
fluctuations 2  
fnf 1  
following 1  
followings 1  
for 9  
foregoing 1  
form 1  
formed 2  
forms 1  
forth 1  
fr 1  
free 2  
frequency 1  
from 11  
functions 3  
furnished 2  
further 1  
furtherr 1  
general 1  
generates 2  
generation 1  
goods 7  
goverhmmnt 1  
gp 1  
ground 6  
grounded 2  
grounding 1  
hands 1  
has 4  
having 6  
hei 1  
here 2  
hitachi 1  
however 1  
howeverr 1  
hum 1  
identification 4  
identifying 1  
if 4  
illustrate 1

illustrates 11  
in 23  
includes 5  
including 3  
increased 1  
individual 1  
information 6  
input 1  
intensified 4  
international 1  
interrogator 39  
invention 24  
ip 1  
is 21  
it 3  
japanese 2  
ka 1  
kokai 1  
kouzou 1  
kvv 1  
laid 1  
layer 1  
length 3  
less 1  
limited 1  
limits 1  
line 4  
ln 1  
loth 1  
ls 1  
ltd 1  
macro 1  
made 2  
makes 2  
makeup 2  
managed 1  
management 5  
manages 1  
many 1  
may 1  
memory 1  
microwave 4  
millimeters 1  
model 1  
moment 1  
monopole 14  
movable 2  
move 1

multiple 7  
multiply 1  
mutual 1  
near 6  
need 2  
no 4  
not 1  
number 1  
numbers 1  
of 61  
office 3  
oikawa 1  
on 12  
one 4  
only 1  
open 4  
or 1  
order 1  
other 5  
outer 5  
output 1  
over 2  
pa 1  
packages 2  
page 12  
part 2  
patent 3  
pattern 3  
perspective 2  
phase 1  
phased 1  
physical 2  
plan 6  
plane 7  
plural 5  
plurality 2  
point 6  
portion 5  
position 1  
possible 4  
power 3  
preferred 2  
present 3  
problem 1  
prolonged 1  
provided 1  
provides 2  
publication 1

quasi 2  
radiate 2  
radiated 6  
radiates 1  
radiation 4  
radio 2  
range 2  
realize 1  
receive 1  
rectify 1  
~~ree 1~~  
refer 2  
reference 1  
reflected 1  
relates 1  
relating 12  
resonates 1  
responding 1  
response 1  
rf 11  
same 4  
second 2  
secure 2  
securely 1  
secures 1  
securing 1  
selected 1  
selectors 3  
setting 1  
seventh 2  
shape 1  
shorter 2  
shown 11  
side 8  
signal 17  
signals 1  
single 2  
sixth 2  
size 1  
sleeve 15  
small 2  
smto 1  
solve 1  
some 3  
sort 1  
source 3  
space 4  
specifically 1

spread 1  
sta 1  
stock 1  
structure 2  
substance 1  
such 4  
suitable 1  
summary 1  
supplied 1  
supplies 1  
supply 1  
switch 1  
switched 1  
switching 1  
symmetric 1  
synthesis 1  
synthesized 1  
system 8  
taxeshi 1  
terminal 1  
tes 1  
than 1  
that 28  
the 181  
thereby 2  
therefore 1  
thereof 2  
thin 1  
third 2  
this 4  
though 1  
through 2  
thus 2  
tickets 1  
to 21  
toward 1  
transmitted 1  
transmitting 1  
transponders 27  
traveling 1  
true 1  
uniform 4  
united 1  
used 4  
using 3  
utility 1  
varies 1  
view 16

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voltage 5  
wave 8  
wavelength 7  
wavelengths 2  
waves 3  
well 1  
where 1  
whereby 1  
wherein 1  
which 10  
whole 2  
wide 2  
will 9  
wire 4  
with 15  
within 3  
without 1  
words 1  
yertically 1  
yw 1